

Amendments to the Specification:

Please replace the paragraph beginning at page 5, line 13 with the following amended paragraph:

In particular, said additional channel implements to advantage the "IOTA" modulation technology, the complex envelope of which responds to the following equation:

$$x(t) = \sum_{m,n} a_{m,n} i^{m+n} \mathcal{I}(t - nT) e^{i \omega_m t / T}$$

where:

- m is an integer representing the frequential dimension;
- n is an integer representing the temporal dimension;
- t represents time;
- T is the time symbol;
- $a_{m,n}$ is a real digital coefficient chosen from a pre-set alphabet;
- \mathcal{I} is the prototype IOTA function, (as defined in FR-95 05455, corresponding to ~~USSN 08/952,331~~ U.S. Patent No. 6,278,686).